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## In the claims:

For the Examiner's convenience, all pending claims are presented below with changes shown in accordance with the mandatory amendment format.

1. (Previously Presented) An apparatus comprising:

a parser to receive a packet and to generate a packet search request;

a plurality of search resources, each search resource to determine a search response based on the packet search request;

a switch to receive the packet search request from the parser and to multicast the packet search request to the plurality of search resources; and

a session storage device coupled to the switch to enable the switch to allow a session to be maintained across multiple packets.

- 2. (Original) The apparatus of claim 1, wherein the switch is further configured to receive a search response from each of the plurality of search resources, to select one search response from the received search responses, and to transmit the selected response to the parser.
- 3. (Original) The apparatus of claim 2, wherein the parser is further configured to generate a modification request for the packet based on search response.
- 4. (Original) The apparatus of claim 3, further comprising a plurality of packet modifiers, each packet modifier configured to modify the packet using the modification request.
- 5. (Original) The apparatus of claim 4, wherein the switch is configured to transmit the modification request from the parser to a packet modifier having a shortest queue.

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- The apparatus of claim 5, wherein the switch is further configured 6. (Original) to transmit the modified packet from the packet modifier to the parser.
- 7. (Previously Presented) An apparatus comprising:

a parser to receive a packet and to generate a packet request;

a plurality of packet resources, each packet resource to generate a packet response based on the packet requests;

a switch to receive the packet request from the parser and to transmit the packet request to at least one of the plurality of packet resources; and

a session storage device coupled to the switch to enable the switch to allow a session to be maintained across multiple packets.

- 8. The apparatus of claim 7, wherein the packet request is selected (Original) from the group consisting of: a packet search request, a packet modification request, and a session identification request.
- The apparatus of claim 7, wherein the switch is further configured 9. (Original) to receive a packet response from at least one of the plurality of packet resources, and to transmit the packet response to the parser.
- 10 (Original) The apparatus of claim 9, wherein the packet response is selected from the group consisting of: a search response, a packet modification, and a session identifier.
- 11. (Original) The apparatus of claim 9, wherein the packet resource is selected from the group consisting of: a packet modifier, a packet search device, and a session device.
- 12. (Previously Presented) An apparatus comprising:

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first means for receiving a packet and for generating a packet for generating a packet request;

second means for generating a packet response based on the packet request;
third means for receiving the packet request from said first means and for
transmitting the packet request to said second means; and

fourth means for enabling a switch to allow a session to be maintained across multiple packets.

- 13. (Original) The apparatus of claim 12, wherein the packet request is selected from the group consisting of: a packet search request, a packet modification request, and a session identification request.
- 14. (Original) The apparatus of claim 12, wherein said third means further comprises means for receiving a packet response from said second means, and for transmitting the packet response to said first means.
- 15. (Original) The apparatus of claim 12, wherein the packet response is selected from the group consisting of: a search response, a packet modification, and a session identifier.
- 16. (Original) The apparatus of claim 12, wherein said second means is selected from the group consisting of: a packet modifier, a packet search device, and a session device.
- 17. (Previously Presented) A method comprising:
  receiving a packet at a parser;
  generating a packet request at the parser;

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using a switch to transmit the packet request from the parser to a packet resource, wherein the switch allows a session to be maintained across multiple packets; and using the packet resource to generate a packet response based on the packet request.

- 18. (Cancelled)
- 19 (Original) The method of claim 17, wherein the packet request is selected from the group consisting of: a packet search request, a packet modification request, and a session identification request.
- 20. (Original) The method of claim 17 further comprising using the switch to transmit the packet response from the packet resource to the parser.
- 21. (Original) The method of claim 17, wherein the packet response is selected from the group consisting of: a search response, a packet modification, and a session identifier.
- 22. (Original) The method of claim 17, wherein the packet resource is selected from the group consisting of: a packet modifier, a packet search device, and a session device.
- 23. (Cancelled)

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